

AMENDMENTS TO THE CLAIMS

Please replace all prior versions and listings of claims with the following listing of claims.

1. **(Currently Amended)** A passenger Passenger or cargo elevator or lift based on chains, counterweights and servomotors of the type having that has a cabin that is transported vertically; said elevator comprising differentiated because it involves:

at least one traction system comprising composed of a set of traction chains;
a set of traction sprockets mounted on the a first shaft that rotates run between two bearings and which is connected by means of a flexible coupling to at least one planetary speed reducer of the planetary type to which at least one servomotor with a brake is (or are) directly connected;

a set of upper tension tightening sprockets;

at least one counterweight equivalent to the a weight of said the cabin plus approximately 50% of the maximum load to be transported that is to be carried;

a second set of descending chains connecting the sprockets that connect at least one counterweight to with the a lower part of said the cabin;

a second set of tightening lower tension sprockets firmly mounted on a second shaft that revolves in the center of between two bearings that are each supported by a structure anchored to the an elevator pit;

a third set of tightening lower tension sprockets that are mounted on a third shaft that revolves in the center of between two bearings that are firmly anchored to a structure placed in the elevator pit;

a power and control system comprising that consists of a programmable logic controller (PLC) that receives command calls from the signals that come from the call buttons both on the building floors, where the elevator is going to operates and as well as from the a call button

control panel in the elevator cabin; said power and control system is adapted to send commands to a motion controller for said at least one servomotor which, based on predetermined parameters, orders at least one servo-amplifiers to feed electric power to said at least one servomotor and associated brake in order that it performs a predetermined operation; ~~by means of a specially engineered operating program. This program executes the orders that flow into a motion controller of each serve-motor which, with previously established parameters, commands each servo-amplifier to send electric power to the respective servomotor and its brake so that it can perform its previously assigned task;~~

said elevator further including in addition it has an encoder mounted on the first shaft of its corresponding servomotor; the encoder configured to provide provides the control pulses and the feedback to said the servo-amplifier and said finally to the PLC about which controls all of the operations functions performed by the whole at least one traction system.

2. **(Currently Amended)** The elevator, according to claim 1, further comprising characterized because it has two speed reducers and upper traction servomotors coupled to the traction sprockets, that to pull up the said cabin or the said elevator counterweights, having the said elevator having two identical traction systems, except that wherein one of the motion controllers for the servomotors is of the master type and the other one is of the slave type.

3. **(Currently Amended)** The elevator, according to the Claim No. claim 2, is characterized because wherein one of its said two traction systems can be used as a back-up of the other one, so that the said elevator can operate, still be operated even if one of the motors fails, has failed, by just modifying (slowing) the operating speeds, velocities.

4. **(Currently Amended)** ~~In accordance to the Claim No.~~ The elevator according to claim 1, further comprising two upper speed reducers and traction servomotors coupled to the first traction sprockets and two lower speed reducers and traction servomotors coupled to the second set of traction sprockets, said upper and lower speed reducers and servomotors pulling said cabin and said elevator counterweights upwardly or downwardly; said elevator further comprising four identical traction systems, wherein one of the motion controllers for the servomotors is of the master type and the other motion controllers are of the slave type, the elevator is characterized by four speed reducers and traction servomotors, two of which, the ones overhead are coupled to the first traction sprockets and the other two, below and coupled to the second set of traction sprockets that pull the cabin and the elevator counterweights upwards or downwards. The elevator has four identical traction systems except that one of the motion controllers is of the master type and the others of the slave type.

5. **(Currently Amended)** The elevator according to the Claim No. claim 4, is characterized because one of the wherein two of said traction systems can be used act as back-up for the other two traction systems so that the said elevator can operate, be operated even if one or two of said the driving equipment traction systems fails, fails by only modifying only (slowing) the operating speeds.

6. **(New)** An elevator system comprising:

a cabin;

a counterweight;

a first set of chains connecting a first part of said cabin to the counterweight, the first set of chains being driven by at least one traction sprocket connected to a servomotor having a brake;

a second set of chains connecting the counterweight to a second part of said cabin; the second set of chains connected to at least one tension sprocket anchored in an elevator pit;

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a power and control system comprising a programmable logic controller (PLC) that is configured to send commands to the servomotor and the brake in order to perform a predetermined operation; and

an encoder associated with the servomotor that is configured to provide control pulses and feedback to the servomotor and the PLC.